Section – A

Multiple Choice Questions (MCQ'S)

Q.1 Choose the correct answer for each from the given options.

1. Ibn-ul-Haitham contributed toward _____ Physics.
   (a) Nuclear   (b) Oceanographic   (c) Optical   (d) Thermal

2. One meter is equal to _____.
   (a) $10^3\, \eta m$ (b) $10^6\, \eta m$ (c) $10^9\, \eta m$ (d) $10^{12}\, \eta m$

3. Rate of displacement with respect to time is known as _____.
   (a) Speed   (b) Velocity
   (c) Acceleration   (d) Uniform acceleration

4. The unit of coefficient of Friction is _____.
   (a) Newton   (b) Kilogram   (c) Meter   (d) None of these

5. We use a _____ to disperse white light into different colours.
   (a) Convex lenses   (b) Prism
   (c) Convex mirror   (d) Concave mirror

6. The turning effect of a force about an axis is _____.
   (a) Force   (b) Rotation   (c) Torque   (d) Momentum

7. Power is defined as _____.
   (a) Rate of change of position   (b) Rate of change of force
   (c) Time rate of doing work   (d) None of these

8. Which of the following belongs to third kind of lever?
   (a) Pair of scissor   (b) Forceps   (c) Door   (d) None of these

9. The number of prisms in periscope is _____.
   (a) One   (b) Two   (c) Three   (d) Four

10. A motion which repeats itself in equal interwals of time is called _____.
    (a) Loudness   (b) Amplitude   (c) Time period   (d) Frequency

11. 1hp = _____ watts.
    (a) 746   (b) 644   (c) 580   (d) 640

12. If $\vec{F_x}$ and $\vec{F_y}$ are rectangular components of force $\vec{F}$ the $\tan\theta =$ _____.
    (a) $\dfrac{\vec{F_x}}{\vec{F_y}}$ (b) $\dfrac{\vec{F_y}}{\vec{F_x}}$ (c) $\vec{F_x} - \vec{F_y}$ (d) $\vec{F_x} + \vec{F_y}$

13. Gravitational acceleration acts on bodies vertically _____.
    (a) Upward   (b) Downward   (c) Inwards   (d) None of these

14. The relation between electric current and the magnetic field was discovered.
    (a) Newton   (b) Faraday   (c) Fleming   (d) Oersted

15. Archimede's principle is applied to determine.
    (a) Specific heat   (b) Specific gravity
    (c) Specific resistance   (d) None of these

16. In a fission process which partial causes a uranium -235 nucleus to split?
    (a) Alpha   (b) Gamma Rays   (c) Neutron   (d) Proton

17. The pupil of eye control is _____.
    (a) The focal length of eye
    (b) The range of accommodation of eye
    (c) The amount of light the eye
    (d) The distance of distinct vision